The Oldest American Aeronautical Magazine

JANUARY 10, 1927

Issued Weekly

PRICE 15 CENTS



VOLUME

SPECIAL FEATURES

GERMAN NIGHT AIR TRANSPORTATION PARIS HOLDS TENTH AERO EXPOSITION HIGHLIGHTS OF THE PARIS SHOW

> GARDNER PUBLISHING CO., INC. HIGHLAND, N. Y. 250 W. 57TH ST., NEW YORK

Entered as Second-Class Matter, Nov. 22, 1920, at the Post Office, at Highland, N. Y. under Act of March 3, 1879

Jennery 29, 1927



THE "WASP" 475 UD or 1600 DDM WEIGHT 650 lbs.

Success The "Wasn" has definitely proven

its superiority to the water cooled powerplants in the Navy singleplace fighters. Flight tests of this new two-place observation type equipped with the "Wasp" indicate the same superiority. This new ship is indeed a worthy successor to the lone line



PRATT & WHITNEY AIRCRAFT CO. HARTFORD CONNECTICUT AMONG FACILITIES PRINCIPAL FIELD AND CONNECTICUT WAYER

ON ARROYS HAD

The 1927 SWALLOW

AMERICA'S FINEST COMMERCIAL AIRPLANE Designed by W. M. Stearman





\$2.485 - OX5

The oldest manufacturer of commercial aurolanes in America announces a new 1927 model. This simplane is equipped with split sole lander ear, new Hartzell remeller, adjustable stabilizer, streamland wires and has a reinforced steel fuselace. The high factor of safety is maintained with any motor on to 220 ho. Both corints are fully onholstered and have comfortable sesting arrangement. The 1927 Swallow has no connection in quality and neclarance at low cost. It reflects the

Watch Smallow Influence on All Airplance for Years to Come

SWALLOW AIRPLANE MFG. CO. WICHITA, KANSAS

DISTRIBUTIONS W. H. Buck 904 Heeslaw Bidg.

Agents Wanted Leviertor, Nobroda A. B. McMoDea Aclasta, Ca.

stability of a dependable company.

Brook & Brazolne BASE & Winter Ann

George Taberham Kalamareo, Mah. F. L. Burchard 5237 N. Tulman Ave. Chicago, III

Danaport Airport Ce Donnerst Issue

ADVANCE AIRCRAFT

LARGEST PRODUCERS OF COM-MERCIAL AIRCRAFT IN AMERICA ANNOUNCE

PRICE REDUCTION ON THE IMPROVED

VACO-9 THREE-SEATER 5 2 2 5 0 .

2230

More WACO'S are now in service for profit and pleasure than all other planes now in production in America.

THE PERFORMANCE MADE THE DEMAND

THE ADVANCE AIRCRAFT COMPANY



| This Guessian Pluziasino Coelevary, [Sec. | Sec. | Profiled | Pr

East D. Creens Vice Provides W. L. LePsex. Editor

North Pole Plens Gove Medals

Vol. XXII JANUARY 10, 1927 No. 2

Index to Contents

NEWS ARTICLES AND TIERS

New President of Splanker

Parn Holds Teath Areo Exposition

Aircraft Exports

Progress of the Pan-American Flight—

Yought Awards Bassacs to Emphysyce—

New Air Mall Rais Effective Feb. 1.
The AS P.A. Junier Phylic Competition
Two Civil Service Advance Appointments
General Gilmare on N.A.C.A.

FEATURES AND DEPARTMENTS

Characteristics of Alexand at Paris Show	93-91
Fuenga Aurocanadral New Notes	92
Side Slips	94
Airports and Airways	95
U.S. Air Foress	98

delimitation price. Four delives per per Charles, price of the per charles of the per cha

Wald Die

With the Editor

cerial stopes and necroastradiceptions, include diagrams, and, is feet, everytody contended with relation by several properties of the context, and the necrosity have a very decided intratement in the proposes sade in Fractor has from the called been averige the insteme in amountariest decided been averige the insteme in amountariest decided from the context of the first house, and for the context of the first house, and for the context of the first house, and for the context of the first house, and and for the context of the first house, and and for the context of the first house, and and for the context of the first house, and and for the context of the first house, and the context of the first ho

attroly fore suspices or engines of other than Proceds sensitives to the workshield. However, it was very descetterable of Proceds extracting progress during the post two years, that is, date the look Arbeiton Solors, it is to the look of the processing of the prosensation in the look of the prosensation in the look, that it has been found immostible to dis-

has been found impossible to discuss all superist in one issue of Avanuos. Begins figured very extrastroly unexay the exhibite and while the abrenth are fully dealt with this work are fully dealt with this work, the many highly interesting outputs ex-

highly interesting engines on histed will, next week, be deserbed and decembed as detail

Flew More Than 1.750,000 MILES

In Commercial and Private Airplanes

Whirlwinds Have In 1926: In Competition Made Sea Numb Pole State in Community Edited Dreit Was in plan Assail Relability Traced 2,535 miles of Was 2nd Place Assets Relability Tour in Sold Versille Assets received \$20 he see heef, seeings speed 113-5 Was tel Face Annual Reliability Tree in Streets Downers' conying \$42 the pay leaf, everyge speed Won Transport Sair for Depot New Art Transport Deploy or Fish higher in Wagte billion complex 1,687 for ballier or 111 55 m.p.h. Wes Bule Commerced Force or Philadelphia compley Wor 12 owner 2 tyrosystem competed for scPinistrickin. Won 3 Eine Prace or Deaves Mile High Air Merc in Marie Nicemany Pursiant, Oregon on Les Augeles figlis. 1,850 men 9 hr. 20 stat. in Epit M-1 Niceoplese of Enrile Au Teamony.

Canada 2,665 for per lead at Philodopher or 114 50 or pr li-te the larger 1 married station; but by the Food Misson

In Dudy Service Floren for

Calcard As Transport - 69200 miles seek \$215 mer of Pacific for Transport - 271,700 miles on the: 1,221 miles mans Line Augusta to Sprade using 5, WHILLWINGO Nontiver Arrays one Caules - 15,600 sales on the sales 17 sides Christopic Fristoping WHISLWINGS and the industrial in National Designation Poorls Arrespo 15,000 miles, as paramy practs, of close det mile read, Action to Manus even, WHIELWINGS as Imman and Cartest Mater. Calvid \$2,000 800 corrects Canadan Art Experts 40,500 stills on their reuse at Red Labo, Canada, using 3 WHELWINGS on leavely in Stitute Daymers and Cames Latin Half Dahad Dazzo, Dermis Arrise Expedition, Grafter Dicksmin, Serzy Dopor, pt Wileymann and Positio, Canadam and Assessme Faithful Company, Somery & Roddman of Males, Dermit Company, Somery &

Washington, Norleik, wang 12 WHIELWINDS curle-

Victor Art Med Service—17,,000 miles with \$78, cont of region parts on their 528 mile range recent the Xacky Management from Sets Cales on State of Washingston using

Philadelphia Royal Transit Company — 339,559 ergen major with \$15.53 cross of engine pain consigning \$200, 301 fact set annual boar on their \$25 miles own. Pin Indiangles These performances recommend to pilots

the Wright Whirlwind, 200 H.P. Air-Cooled Engine for SAFRTY - ECONOMY - DURABILITY



WRIGHT ADRONAUTICAL CORPORATION, Facesson, New Jersey, U. S. A.



The Oldest American Accommissed Magazine IANUARY 10, 1923

military types

The Paris Show

ate that the calcileton, while characterized as "Intanaissea!" in all title was not more interactional in stad that if was anything like fully represented. Erg-Considerate, therefore, only the Preach exhibits, it

duced from four to buy. The specime arrange is reduced warrants the enrighment made in other directions. Obvisuals the Jockey type of plane becomes an offensive weapon years and shaple. It is boood, presquably, that

many incorporated a considerable personation of metalecestraction. Where metal experientics was recolored it presently involved pivetias rather than welding. A petable example of the type of riveted metal construction excepted in to be found in the Avineta AVM 58 nursuit plane which is constructed of Alterium Sant affor In the larger class of military sissenft, day and night are other convented day or great bombers both of the ungle and malti-curran true, or, at least, designs in which the influence of military requirements in very apparent. For excessio, the Baryret 26, a sur-passenger

N THINKING of politics or component system of

has become habetual no think that on surpline in exsergone of at posts poor SCO.000. Stark a firege as the from that of a confidence bridge to that of a bridge planer. Many complete that the structure weight with maily be the case. Furthermore, it should be resease

month/litter in the really town alcohors for one over the

German Night Air Transportation Berlin-Koenizoberg Night Airseny Fully Lighted. Three-Engine Planes Used. By ERHARDT MILCH

*LEARLY responsing that firms at such in one of the hank and toru reductor, nation it wanted to have the way hers particularly externed in the development of night flya member of much routes by the German are transport conservice, on Nov. 25. The record attained in these mark region strying for invoking at night. All the passengers were therefol by the woodschill aspect of the thougasted often at

night. They were all enchanted by the advance of business

shifty. Evod on these good results, the system of melt

reales will be further extended sent year. The new loses will,

Junkers G.St monophones which, for this purpose, were

even on the durkest night. For orientation and harding there are powerful marricharity attached to the ware, recovertheir survey from a sand generator meanted undergood; the cool to the gederois of such warr, sample of Elumination the brackespe within a sudres of \$,000-1,000 ft. to a brightterm exact to derivets, in most of a leader becoming moun-

Local form are entity arounded by several of a consider were. times during the fight. The injury liber has position of the week

The regist illumination of the route admits a perfect originorder to obtain the greatest range possible, there become are Between these prestring become, at returnin of these or





The experimental Neural network modelled at the NAT are used field at Matter, RC. The Neural network in the terms on the registrated the Neural network which which glain is believed out their speciality are modelled in the principle of an include at the principle of the network at RC and that we have the special networks of For mechanic takens of sed bandom, the opposits are sur-

as accorded alone to each surport a high beacon, wiseble fi directions. These beautits programly exceed of revolving screeklights which, under average condition of visibility, can the field theelf, there are, in the semechase visualty, field Teachella Armed Tariffy has an its two miles tower over visite to red. Thus the red light in its windward and the wind blows in the director, red, while, green All obstructions near or on the field are either unried by rad

version likes or brighty dissinated by averdifields

currents of five electron hollor, such of 1000 water. They special s. very agreeable light ever the whole field which is about sufficient for making a sufe bridge. In addition these lights dissense the heldings on the surport in a way that they are easily respectated from the air. By seems of those "many for servicing the machese. Directed only decreased, they have no blinding effect. The Tempelhofer Airport in also convend with an illuminated wind direction indicator that show up very wan toon the air.

Either of these derices—the "head" or the line of green,
their and red house, in reflicient for harders without are





Highlights of the Paris Show

By JOHN JAY IDE
Tohani Annua in Europ. National Advance Countries for Associates

Technical Assessed to Design, Natural Advancy Committee for Agreements

The TENTED Prices Available follow was bold at the Oriend particular time. Two years ago a similar of analysis of wars.

Thickes from Dec 3-40, 1998. Phily-state stryidates and where-which were expected with 2010 to express. These services were exhibited, of Sains, 32 were complete, phress skills restable the Straight St. (all sain face services). The December 12 or provide place of the December 12 or provide place of the December 13 or provide place of the December 13 or provided place to the December 13 or provided place to the December 13 or provided place to the December 13 or provided place 13 or

Jorkey Pursuit Phase

Seeign on reflectures were represented Barbia, Arcatrons Wastworth, Casth. Arm, Arm and Smelik, Indick, Falka and Kolmonk, Indox. Fast. The names classes of sixwaft was represented by the fol-

A blades (New York Control was represented by the felpolicy of the control was represented by the feldiagnostic of the control was represented by the feldiagnostic of the control was represented by the felangement. It is most the mergenderies to ideals for beinging of
the feltion of the control was represented by the feltion of the fel
tion of the fel

the fel

the fel
tion of the fel

the fel

the fel

the fel

the fel

the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the fel
the f







to two companions. The concentral fighter entenant within the life tax verse less here retransitions. It due 1950, equilibrate less Kontones VE C2 over the value for Kontones VE C2 over the value for content finderes where it the 1955 follow so have then right manufactures exclusive and replaces in this clear.

The Archestic

Our of the own solution in the National ACM of the grant which is a variety of a fine of the other for the composition of the fine of the other for the composition of the fine of the fine of the composition of the fine of

Observation Planes
Alment of the ubservation operation while an augleaven. Assume there was a frequent XIX, requestly adopted
for long vibrous extent on the frequent XIX, requestly adopted
for long vibrous reflects, and shall take the fight for the
plane of 1970 indices as 20 for from their to 1984, (1994).
The reflect of 1974 indices as 20 for from their to 1984, (1994).
The reflect of 1974 indices are the front of 1984, (1994).
The reflect of 1974 indices are the formation of 1984, (1994).
The reflect of 1974 indices are the front of 1974 indices
The reflect of 1974 indices are the front of 1974 indices
The reflect of 1974 indices and 1974 indices are the 1974 indices.

The density has given (First 60 kg). The density is the price of the first simplicate barriers. The whole of the Price of the Conference of the Conference of the West and Conference of the West and Conference of the West and Conference of the Con

such exhibited by Condens and Maran Statemer, and you such

by Avia, Boartel and South

The PARKET F VIT 30 is suscribed interest with designation Compared for the Text De Table and in the control of the Text De Table and in the Control of the Control with the Text after Linear Control of the Control

January 10, 1925

of the war of an audity control our bridge a properties The bare and strake age 145 mm and 108 mm the comparessan

single eagine bigines flying book, the hitser equipped with

high-payanti raded ex-cooled espines. The Geome-Shane as the earlier models devolves 650 kg. at 2000 years with Social departs, and years a management of \$56 her at \$175. The openes of the Jupiter has owned the Solmon and

could make an Larrana-Aterian tought, someone as must of funces water-coded types, of which the highest pow-

is a M-syl engine of the homosomity represent type and is made of elements along There are four valvus per splinder,

Fernan duckood they well known 500 km. 12-rd, and 700 with 12-red, in two bonks. Historian Street showed their from Among the foreign regime providedness Osset Breteln was represented by the Assestment Stateber and Record companies Corcholomaks by Severish, Danck and Walter, and Hely by

New President of Splitdori Of federal to the elevant field became Softland suggestion here here used in America agently engues for every rear-

tl the Navember meeting of the Rosed of Directors. He was Reside: 22 Inquestrat make and mark ploy bustons, the noise of warly represent in the satemet're, clothic and It was also represent that R. W. Portor, a middle branch



The ConductiveSian Aria S.M.20 towards Splan (Sopher, 400 hp.)

January 10, 1927

Paris Holds Tenth Aero Exposition

Fifty Nine Airnlones and Secularies at 1926 Paris Aera Shaw, By LADISLAS D'ORCY FIT HE STH Pers Acro Show, which was hold from Don.

strings, both lend and on types evisioned. There were The interiority of French commercial existing is shartly

The great magnety of suddens, shown at the finion allow

J to 19, 1925, et the Street Paten des Champo-Skywies,

These are overalleration that have so for loss assembly

A Real Airliner One Preuch marking about out to this respect for shore



The Former 178 ms processor surface (Former 500 by), a neighborous metilicities of the Julius which had segons on the boson was stable

The Mines 103 in the prescretard versus (web Japane)

Tiv. Creekedowlynn Leter. (Santh) 5.16 Jay-braker (Lerrose Datech 460 kp.)

of loors 1900 for widend top coupled an agricul 200 to coulcal box girder of large percenture, which is formed by accountry to go sale details about it.

While France has, during the part few years, made a large the majo remark their son was the Jupiter regular identified in Asserte at Eur. 13, 2005 - Et l was colve

Transport Seculopes



A Three-Engine Airboor The SECRI establish the stateton of the treature and



tast the say of mor suital fitteen, in very stroom, highly and is not writte the Leventery titl shiphead recommissioner

Other French Aidmen Among the other nations of Found construction there



The Love St Olivie Lee H193 in principle region (figure 423 kg.). The type is said on the AdditionApone arrays and is the realism and by Leebrant Bernel in his most flight pure Dang to Bown in Modification array coined Africa.



The Line-Courbo Laurery S2 C1 parent place (Saytor, 428 by) een. The hall of tenher contraction has very fac Tara-

bests bays a long and annotest mount of service. The type 25 was the 1805 competition for French Transport Seculars. marking her deer lace. Here, on progress on correct Hower this columnted the flat of transport container

around of its greater rosed at low offender but slower shado

for the latter type was recently placed by the Preach Mil-



The Line Condex Assessed SI-Ct provide plans (Lorenze Describ, 400 dg)



number evaluated before of contrading west that was shorts communited the local atoform and made mellions and shows was the Witself TC.1 (429 by Jenster). The perthe chord the farmed stress of other side. This type of

The Past I'll 50 is a Warme traced believe of mital car-Broad (SIMB) 1501 with 500 by Broad-Satu. The fundam. The Bernard 1901, a new product has a well

Following the presence, by the French Air Devertuous of

nit relegation of a correspond construction and of very largest was nive Seco. The metal is used to its element forme, straight visitables.

Tubular Construction work of chouse strates observe and formers which is an Fordarity chang. The tring year are of changed welcon. A The Leveneur 9C2 (500 hp. Hyggro-Spin) is a well the Leveling of a tow my Highlio-Sign, o a weather-direct hindene of the true of construction described in

The SRAP Solver, half to the dreigns of M Biobiersa. The Volken twee Y properties with Solder (658 ha Leereine's in a scenie hav breake leption, with my syst medica. Amony 10, 1927

to Assesso (Egypt). Allogether, that marking has covered more than \$5,000 km. (the length of the Konster) without

The numeric number of the linimat XIX G.E. is the Peter

The Point meritage, whether 25 A.2, 25 G.E. or 28 G.E.

to treating and tauring significant. The Orndren 204 G.R.

Fagrana constructors were not represented in this class, but

NITRO-VALSPAR No finish goes on more quickly or

There is no varnish finish which his mer with such widespread approval or

given such satisfaction as Clear Valspar Varnish or Valspar-in-Colors. This has been true since the earliest

day of the industry and is equally true

today. This remarkable finish adheres per-

further mental around and depend surfaces. and is quickly and easily spolied. It dries overnight and gives a tough, durable, weather-proof and water-proof film.

Volumer origination of the prevenue tests encountered in actual service. It is unaffected by the extreme and rapid changes in temperature and weather to

which aircraft are subjected. These qualities have made Valour truly the standard finish of the industry both for prigrant finishing and refinish-

ing week wherever spray-run equip-

for Aircraft

The Valentine Lacquer Finish

lasts so long as Nitro-Valspar - the modern all-lacemer finish. It produces a tough durable film, thioner and lighter than varnish, yet

absolutely water-proof and weathersecof. It is unharmed by sudden and extreme temperature changes. Nitro-Valenar is designed for soray

application and finishing time is greatly reduced. It dries so rapidly that succruive come can be applied at no minute intervals or less. Hence a plane can be finished ready for use within a half day!

Repairs of doped parts protected by Nirro-Valspar are made easily because wing dope adheres perfectly to

Clear or in Colors, Nitro-Valstar gives any surface a hard, durable, waterproof finish. It is proof against injury from oil, grease and gasoline.

The mention religible of the String and only made the

Among the foreign contangent there was the Knotheren

escentible mono-busine 1620 kg Jupateri, cheeks penarkable for its gas turnent which may be notated at high speed

The Publish company exhibited the Publish C.V. convertable

The Avin B.H.26 tray-next fighter (Japanes) as a timber-

The Armstrong-Whetworth April (265 kp. Japan) is n the Armitrony-Winterests Apix (No Np Japun) is a medical of conventional, but pleasure lines, with a structural

Connedest with the recommon of two-errics fighters, as

The two great French speculate of A2 (corps observa-

Night Bambers

VALENTINE & COMPANY Larent Manufactures of West-Craste Francisco en sto World .. Excelleded MS.

Mary Vorkantili Travels Ave Parents - Marcal Concess Montage - Television Facilities 8005 W. P. Faller & Co., Public Cons.



During the month of October, the exports of nigorali and current from the United Strine, according to figures remed the Everyword of Commune, Europe of Parrier, and

The Later S 16, fitted with the same copies and which looks

Touring and Training Plance guerre the Salare, poor the fullest credit of this great show

Aircraft Experts

556 by. Rescalt regree, which to a ringle boy biplace of very

Naval Seculates and Marine Arrelance. ug was the CAMS JA (450 by Lerrous) flort spotter expelle of serious work with the first. It surries a core of

The Montes Sudver (32 two copy training and trajing according (Schools 120 in). The test is great been such country tramedical of the true with which the U.S. Nevy Department. of years ago, and and foots fundamentally differ from the Ande from moral semplanes, there were exhibited at the

resigned with a drespolde or musick undersyrans, so the





Contractors to the U.S. Arrey and News. SIDNEY NEW YORK

BARRIOT,

(Printing Co.)

ent entent entre some

and water

Characteristics of reraft at Paris Show

Power MN TAY IDE Telanal Assists in Ecopel Adequey Country for Associate Stationers and the William and Log Cour STATE OF THE STREET PERSONAL NEW YORK PARKETS. work work to select the selection have ă. I refer to the e the transmiss for lighter or saving

ers tone

AVIATION January 16, 1927

FOREIGN AERONAUTICAL NEWS NOTES OF Special Arrangement with the Automative and Trensportation Divisions Bureau of Foreign and Domestic Commerce

The Spanish Aircraft Is

Since as usuals of our regard merhets for nicerally problems be in Lane, America, i.e. in Gardenting in more investigation to the control of the control of the control of the conlabilities, and of their moners to regard the delegate for the histonic and other moners to regard the delegate for 20-78, 1958, with the greatly and count of the figuration and exactly manufacturing mobility. There we equalities that the Spanish parameters of the control of deline expert more their in the Lane the following existed priors as were one

mental process of the second process of the

The plant of this than a benefit was Market down it. The plant of the first first principal for the point in the principal for the plant principal first principal first principal first principal first first principal first

wholes the second statements of \$2.0^{\circ}\$. Goods and \$1.0^{\circ}\$ to many \$4.0^{\circ}\$ to

rempleted its workshops to Culta for their manufacture. (This

to the Durage Wal with twin Rulls Power region-En

"Standed Expansis de Trefon Acess".

Lerrigh"—Containable Albis.

Lerrigh"—Containable Albis.

Lerright—Containable Albis.

Lerright—Containable Albis.

Lerright — Containable Albis.

Lerright — Containable Albis.

Lerright — Containable —

the company where these are tending in Communicate Arts, he may Modell's Yesheribes of Engines Hupston-Sweet — Secolom.
This investment factors contracts simpless serious of the

Propelline.

Consideration of propelline has reached a high degree of perfective in Spois. Four shops exist in Marind and Gaude to their manufacture of the manufacture of the second second second second second second sec

Resides the Leading rediction, sectioned above, which are used by the Constructional Assumations in Orderly, there are two more infeating towing our reduces in Model, the data of their predenting the Committe radiates. There are also three of their function in Hansiman. Magazine. Magazine.

The Webbirson of Familier Orderous returned in this dis-

Dist, resulting for managering, D.J. B., 2000 from remaining any virtum ergines. In selffice, the Borosled Jarrier will be Constructives Across these least scaling, molecumentus, erg and behavioration for singularly measurements where magnetics are produced. Previoles:

A fasteur for renderment from and variables for observed.

protes of opening Another.

Argentina Stort Airpiene Manufacture

The recording for the first ampliese Sector in Argentina

and opening of the evolution for the security contraction. The factory is mustaficial in district, in their purpose being to many independence of Important security contraction of view. The factory will, however, in normal times construct power for elethen normalization and will not for military services, and the security of the contraction of the contr

Progress on the Post-American Flight

Of Doc 27 in the American from result of the read of Clerk

(Of Doc 27 in the American from result of the read of Clerk

Algor Burger, Chapter Me Hundre at Language Well

And American Edition, and James Delivery, reprovides

the American Edition, and James Delivery, reprovides

Algor Burger premate a store from Provided Coulding

Algor Burger premate a store from Provided Coulding

Comments and employed by the Modern plate. Store

Comments and employed by the Modern plate and the Modern plate and the Modern plate. Store

American Store and the Modern plate and the Mo

January 10, 2227

Smaller source; at the form, but the force between the many data that and for points for red to the control from a second that shall be the force from a second with clarks of shall be the points induced to the control force of the control f

he the expressed of each place, there is also a collegible

box fore, in folded and stream many in a subgraphing small important. The time to strate the absolute of previous important in the time to strate the absolute of previous interest and the strategy of the st

sometime on the masses of the spatial to give every assumence; such deviated by Mayler Borners moveling, power for the stort of the delicit. These eres requests for freed that finance, according to the stort of massine transition and requests for the relief. If the series and requests for the relief, if it is justed who is found in substitution to the rest of the difficult financial down convent in substitution to the rest of the difficult financial down convent in substitution to the rest of the difficult financial down convention and the stort of the difficult financial down conventions and the stort of the difficult financial financial

Vorght Awards Bonusse to Employees
The Glossov Yogid Corpression, manadiscense of the
with-known Yought reportate, has got anapheid another
with-known Yought reportat, has got anapheid another
against all dating parties with no negligate, the demonst exclusioned the deschedule of generate enth bonuses stong
and the deschedule of generate orth bonuses stong
and bear of the proof, beard on the total smooth of
wages instead for the you, was availed for all melgloss
and bear of the proof, beard on the total smooth or
Reportunities of the wides facts then see properly engineed
Reportunities of the description of the proof of t

of an experience of the experience between the experience of the e

Wright Air-Cooled Engines Discussed
The Journal of the American Society of Novel Engagement of November across the schole to the Development of the

teners the evolution of this segme from the extrice L. Lawrence in 1818 to the persent truarticle in fully identrated and the various a are described and outcomed.

New Air Mail Rate Effective Feb. 1.

The new state and rate of the centra held conce or fraction thereof, will become effective bid. I. This will apply regard ton of the flatinger covered, it was recently amounted by the Post Office Department.

The mell supercole the present eprison of round makes for all

AIRPORTS AND AIRWAYS

Cinciprati, Ohio One of the most moorbest creats in this distret during pless job, equipped with a 150 bp. Wright "E" engine Other phases and engines are being schall and overhealed mann Asepurt.
Straige Hadham, of the Suter-Shidde Company, has com-

Cost John Pettron, the of Louise Arrest, has been

The Comm. or on East Shaper of Arbitra Challes The Yolds, Epstern and both Aprilley on Alasted, Type Fift and

stream own of Artifican Tells and Harques Uniting Ey From Covering and Deploy Advantage of Schools and Paragraph and All Schools Cheeling Alganist of French Empiler Vergo School in West Spicing

are conducted Electron On the Paris acres Piping the Country Project And Proxy For persons to be executed in paris shady of the reserve

THE PRICE OF THIS COURSE COMPLETE WITH SLUCIMENT OF ADVIANT, IS

\$5.00

Sand wheely an enemy under or wrote for further rate reserves.

PROMOTION OF AVIATION

METAL

HOME STUDY IN AVIATION Planes and Parts

dealong shorn and methods of Salegores

which have mornially policial once and weights and morning professions and strength T AM NOW shis or offer to engages, do

A FAIR homes plus unfor which a man Motors may Rimself product special MY EXPERIENCE, and anapoles conferen asymptoticing faulter are new

NEW YORK

strates of couples of each appear set makes for speed solding, or conserva-

CHARLES WARD HALL INC.

The writers and obliors of pseudo-severitile assurances on World for some occusions to some may be obtained at all arastands for as little as torsity costs. The writter of maoround upble, when desplot to do a little promissioning without any nort of qualification and if supose evers to dis-

Prior to the titer 2000, a presenger will clinb rate a plane In the year 1990 a newspaper will instructed a result the Below the close of the persons emissive a plotum will apcorrectly conflicted. If this absorption shows a lat of "hea.

string of DE's." Before the year 1863 the aventor hero of a median picture guggles and pasters Frier to the year 2000 all articles which could possibly be corned in success will have been covided, and all claims to how here the first to deliver electric electric server, sensed warner

made. After this the industry our settle force to a consume Grely quest entereor, being distorted only constitually pe nomence breaking the speci round for 18,680% susters or In the year 2000, because of an arithmedical error in the

Some time before the year 2000 an air race will be held on the same day for which it is spheduled. By heldbur the more the day for which it is scheduled, the follow his have come from a distance to see it will not be found to been

stand had no one will be forced to attend these bureaus of lack of something olse to do. Seem day we are price to get the eager in the this seam on the day that the office of Avversor thinks it should be in. but we heatate about peoplesying just when that will be

paint be allowed to carry a passenger, a horseed yalot, on the first This change red to doubt be made Two Civil Aviation Appointments

organization for \$15 years. In addition to being the nather of many satisfies in second in flight suggested dates, in or the writer of SAir Medicine" an entrinelling work wountly risk-On Dec. 6, 2006, B. O. Lackwood, recently civilian test print to 1835 survice to that opposituation and with the Boral Alv. in 1915, seveng in this organization and with the Boyla Air Perce until 1916, when he inited the Stavies Aviation Conpany. In 1970 he became a test pilot at McCook Field where he served until his possent appointment. During then served he shield 2,400 her. 30 min. of official fivius time to his

The A.S.P.A. Junior Flight Competition An every, which hade from to you justice assessation) as man every much in the line light this copiery senses, is the

Herry Coplend, of Hestford, mother ASPA member. a necessariation in the Town Company of Sight

the jub to make a showing in this event. Some West, as-

farms a piece, and will represent Student's Names

Dr. Lewis Moursell Steam famoutly makes Market Corns.

States Amer, in addition to which he was augustner of the ing Section at McCook Field. General Gilmore on N A C A

In accordance with the recommendation of the forcet of War, the President has designated Brig. Gen. W. E. Cli. more, as the A'e Curps representative on the National Adviever Committee for Assenseties.

Ma. Difficulties in necuring a nuttible field were numerated through the efforts of Portugator William Conding, the local Another pilet was added to the personnel liest Sensors, when Karl Smith lossed the force. He is no relation to

Passeque survying has been good this year, considering Deaxer, Cola. Fr Mr. J. Milanes

Stress 24-such revolving elected beacons, from 3,004,000 to 20020 stallenger carl, will be neglet on filty fool towers and placed at attention on the 204-rate strates of the One producer horses larks as absoals, so operation at Lawre-

Field, Denoce and homodary lights have been placed spread Company, made the trip from St. Leum to Derver this work to take delivery of his Enderget. The plane will be used for more different eiten.

DOPES PIGMENTED

DODES ENAMELS

*TITANINE

TITANINE, Inc. Centralism to U. S. Government

The Purpose of the National Aerosautic Association MAKE AMERICA FIRST IN THE AIR

In the effect of month and books YOUR assemblies and appeared Regular Membership \$5.00 per Year 1623 H. Street, N. W., Washington, D. C.

The CURTISS "HAWK" SERIES

January 10, 1927











CURTES FIC 4 "HAVE" NAVY LANDPLANE

TT is a universally accepted fact that the Curtis D-12 motored "Havek" of the It may not be so universally known that the "Hawk" type is basically adaptable to surpey power, plant total latines, without remaining in the least its charge. terratic excellence of performance and services believe Above not shown four types of the "Havik" each developed to meet a peculiar recastement of Army and Navy pursuit operations. Each fulfills its function so satisfactorily that production orders

THE CURTISS AFROM AND



S MOTOR COMPANY INC

CARDEN CRY & BUREALO N V



The Basecy Airport, spended by the Maine Actiel Service At present all kenger some in taken, but in the Soular two

Ryan Airlines Meets Emergency

Three places flow supplicitate to the knowner and started

'UNITED STATES AIR FORCES™

Work on Wright Field Progressor The Department of Wer law just reasonated that approve

meets on Wright Field, Dayton, Chie, which will repplied McCook Field as the Amy on home and well reder you

under construction on the passperty which the Cely of Doyton Is addition to these, it is accounty to provide releved

selege, reds, write, a rices and electric datributes to

Air Corps Reserve Officers' Enrollments there were LET eccoderate in the orest make of the Air

Proposal for Special Type Observation Airplane please and furnishing proposed nephran to quantities at use,

PIONEER AIRCRAFT INSTRUMENTS

1919 - 1927

Since its organization on March 1. 1919 the Pioness Instrument Company has devoted itself exclusively to the design, development and manafacture of aircraft instruments and Piencer Instruments now stand

conjument.

second to none in the world. Their effectiveness in aerial poviention was amply demonstrated in the winning of the 1926 Ford Reliability Tone They are to be found on every sigplane of the U.S. Arrey Noor and Past Office and are results occioseest on all American commercial air lines. The Colonial Air Transnot mes complete Pioneer confo-Company, Pioneer Instruments are also to be found in the sir services

of six foreign nations.

Increased production has resulted in a reduction in the costs of Altimeters. Turn Indicators and certain other stendard reminerent. A new price list, absoring the corresponding reduction in prices, will be mailed

754 I FXINGTON AUFNUE BROOKLYN NEW YORK



THE PITCAIRN OROWING

A three-place plane of confismanlike construction, combusing to an exceptional degree the exceptial qualifies of

EASE OF CONTROL ECONOMICAL MAINTENANCE ADAPTABILITY TO COMMERCIAL USE.

The Price, \$2,000,00 at the Factory enablishes the Pitcam Ospetus as the lenest-reject modern commercial surplishe on the market

Complete Description on Resuest

LAND TITLE BUILDING PHILADELPHIA

Navy Gires Planes to Const Guard both VO Scowlers One and VO Squalton Two are co-oper

Palar Plane to be Placed in Nuseum

As count of piones not the Asets pions at Yolcho. When of head branched, the rathets beyond of rathe the North honorary. Man-Battle Fleet Activities.

The

sing is property for the practice.

The Communities Officer reports that the straffing attack

Navy Aviation Course at San Diege That two course from the Eastle First, Combr. T. N.

the old places are being flown as long as possible." Another interesting furtice of the present sensores the

Amphibian

A Potented and Proprocesy Article The way to which this modern design of plane has come to be accreted by the Services and

great tribute to the conscious of its feedimental design. And the practical derive day LOENING AERONAUTICAL ENGINEERING CORPORATION DIST STREET AND BAST BIVES. NEW YORK CITY

Loening

STREAMLINED METAL

Ready for Delivery for Planes Up to 3300 Pounds SEVERSKY AFRO CORP. 7 East 42nd Street New York, N. Y. The Weekly Issue of AVIATION That You Miss

become you are not a standar advantage may assum the astude normal per and not a statute advertised drug arrest on a series again along. Protects or advertisement which you could have used If you are a service or a sirries fire. AVIATION is no If you are a strong or a strong by the Avincence is an antiquently advant to prove on the forces in each settly more provided and the special publishes more severe and conserved Bring new that appears or any monthly and more supported, if a NCSS when a special publishes at AVIATION.

AVIATION

The New Ryan Brougham for 1927 - preatest closed Plane value today



Destined to Predominate - as the ideal type for commercial aviation

The RYAN BROKKHAM has undergone a thorough divelopment Carefully desirned, expertly constructed, with resulting movier speed.

The model illustrated is powered with the Wright E-2 motor, a full videe four place birth meed commercial corner at a price that makes this passenger and mail transport-profitable! A complete line of open and closed models now under production for series delivery.

RYAN AIRLINES

SAN DIEGO

Commander Richardson Addresses Los Angeles

dam well it wit the

ship There is still room for more students at high. dry, sunny alexander auxont, Denver where the \$50 for 5 his training

course to giving many Ground Eaglerock to get into the game before t

howest in the Si Jack FLipper - Mechanic

If , to arrive flety Laughey Field, recerting to keeping status

Arms Air Orders

See Land Dec Frenk Vossbers, Air Corps Ros., Guarga, Navy Air Orders Line Couch Devel E. States det Ner, for Str., Prans-Lived Owner names in marrier del New Aur Dra., Proce-ción, de brury dury Bre. Blat., Payet Sound. Lived. (pt.) Paul S. Severell del Nav. Ale San., Procession. Raige Crutchfeld Adus del Nev Atr Str , Prassocie, to Radge Crathfield Actor del, Nov. Ag 27, Philades, 30 VT Sel. Two, Alexell Sol., Barlie Fit Energ Heshol & Selbeger del Nov. Ag Em., Passarda. Resign Branfield B Nichol det Nav. Air 84c, Pennaula, in VT Sql. Oue, Assenti Sql., Seige Fix.

marks, Accord Sendon, and the Commenting Ottors,

Keer Abagul C J Propin (SC) USE, General Into Loret W S Stellink (SC) USN, visited the station.

hand at the Novel Aer Station, Labeltoni. While the share

counted for the first rise at the slatter excepts. The war

Piret Lieut. Marion L. Efficit, Air Corps, Mriskel Posts, to

ville. Iven, to neave duty Fort Edry, evertise to searline

Part Local Bergracia S Confiden. Air Corps, Air Corps. Advanced Floury School, Kelly, Field, in report to compared.

First Lings, Edward Bleary Halternes, Air Cores Ton

First Liest Mett Mexicales Nieuwen, Ale Ougo Res., Au-

Les Augeles Undergoes Repairs

AMBOUNTED WITH ALEXANDER DESCRIPTION

DURALLIMIN FLYING BOATS, PONTOONS, WING FLOATS and SKIIS



EDO AIRCRAFT CORPORATION Liberty Guaranteed Aircraft Motors

Stub tooth cours. Ohio pictors. New, \$1200, Used 20 hours, \$975 Liberty 12 curburges, \$25.00, number, \$14.50. complete Defen bends, \$10.00 Large lot of conta

VACKEY AIRCRAFT COMPANY THE CURTISS PULITZER RACING PLANES

ARE EQUIPPED WITH OUR SHOCK ABSORBER CORD Forest is the Massington of Body Cord In-Procesic Produces of Cord for Canadian and

Pully Equipped In the Largest Requirements on I W WOOD FLASTIC WER CO. STOCKFIRM, MASS, EJA New York Office. All S. 12th St.; County. 32 St. Pater St. Brancad At Your Somion

Manufacturers and Distributors Airplane Accessories

and Supplies Cell on us for snything. We will help you. College Point, Long Island, New York,



What Do You Know About Airplanes?

FEW years ago men had to learn guide there—no one to possi out mariakes when they were made-and therefore years were spent learning what takes mouths now. THOROUGH - PRACTICAL TRAINING Today the Agreem School of August often you Today the American School of Assessed series you flow long years of superconn and knowledge, which may

Ne matter whether you have worked with anythms all the training and one gove and preventing fees book.
"Opportunities in the Physican Industry."

American School of Aniation 3601 Michigan Ave., CHICAGO, ILL

105 A V 1 A	TION January 10, 1927	Jonesey 10, 1927 AVI	T10N 166
⊕ Where to Fly ⊕	EAST AND AND PARK OR. These Plans Justicelia. ALLIES AND THE JUSTICELIA OF THE AND	⊕ Where to Fly ⊕	INDEX TO ADVERTISERS
CAUPLENIA THE BYAN SCHOOL OF AVIATION 6.5 (SEGO) THE STATE STATE OF THE STATE OF T	SASPIAND CONCEPTS AND CASE OF THE PARK. CHERFRANK AND CRAFT COMPANY Sections of the National Parks and explain Section And Section Se	CONTINUED FEXTS FROM LINE BY THE PROPERTY OF	40-mar Assessit Co. 72 Across Marchine and Tool Co. 116 Acros Supply Co. 185 Acros Supply Co. 185 Across Co. 105 Manufact Across Co. 106 Account School of Across Co. 198 Account School of Across Co. 198 Account School of Across Co. 198
GARDOTOTT SEW ROUGHED AFFICEATE OD, 1800 Nov Replaced for the control of the cont	ATLETACY STEER SCHOOL OF AVIATION SERVICE IN THE SCHOOL OF AVIATION SERVICE IN THE SERVICE IN TH	ORNO PORTORO PARA CONTROL SERVICE MATOR CONTROL PARA CONTROL SERVICE MATOR CONTROL PARA CONTROL SERVICE MATOR CONTROL PARA CONTROL P	Bax 507 908 Clessified Advertisms 207 Chrysfield Tool and Saggit Co. 208 Classified Amplitus Corp. 208 Classified Amplitus Corp. 209 Curies Amplitus & Makin Co., Lec. 97
PORTED Accounting the commissions of all over Paying solved early mone or TAXEM, making it the surprise added of technic in TAXEM, making it the surprise added of technic in TAXEM, TOTAL PROOF, Prince recognition for the for interesting. A. R. MATELLARIA CONTANT P. O. SIG. 47th, NAMED LARIA CONTANT	MORNAM LARSE TO ETILD ADDIAGNEE POLICIARIA ALGORIE ETIMO & amada Dictiba. DEL Tendrois Etimos flass / tendrois birtidate or paytoni annering addition flass / tendrois birtidate or paytoni annering addition flass or paytonia annerin	A Policy from the Companion, Service a State of American A Policy from the Companion of the Policy for Policy for Services (ASS) STATE AVEXT AVEXT ON COMPANY Exams to fig the \$22.00 or 1 states, Sales, Gibbs; and on other prospectors of Policy of the Services (Services Services Service	Docation Assemble Co. 133
TOWNS YALTERS FAYING SERVICE BOTEL TEAMS OwnerST Trans Landschild and deliver Green Lanc to Fly at High Attitude—time pre, one fly any piece	COMPART PLENS COURS, 15 MCRS, 500. All marking as Explained Adoptions with individual instruction, and the second of the second course	TO BE ARREST ACCOUNT OF THE BOX OF THE CONTRACT OF THE BOX OF THE	190 1841 190
MALYSIA Copy of the copy of Climate ACCE ATENDER RECORD BY ATENDER ASSOCIATION Learner & Broaders & Mile Acces to Fig all one application about 10 may recognize priors Compile general and off arriphs (from any time form) anomaly deated for anomaly flower interviews. You for the information facility of the anomaly flower interviews. You for the information facility of the anomaly flower interviews. You for the information	ALTOCAL BASEDOSTVON AIRCRAFT COSPORATION To Love Control Finance by the Love Americal Control Finance by the Love Americal Control Finance by the Love Americal Control Finance of the World Joint De Indeparte Investment. Only new place case. A present invested when in with scients. Distriction of Accounts in Michigan Control Finance Control Finan	PROFITMENT BETTE FINE PROFITMENT BY THE PROFIT BY THE PROF	Indexed, G. S. 339 Johnson Motor Products De. 208 Kershofy Assemit Osqu. 111 Kronkov-Horistower Airwelf Op. Inc. 209
MALTONIA MICHAEL ARRESTS COMPONENTION MODIFICATION AND ARRESTS Chambels from bettered yours. Large sale field and good nightness. Marchiness for the new Years Offices.	EXECUTED FATING FIRED. Each \$15.00 per Communication of the Communicatio	PITCARN AVIATION, inc. Large three field.	Amerika Stendard Astronath Co. 2008
CHICAGO AERONAUTICAL SERVICE Bootless design to the property of the property	SUPPLIES TO CONTROL OF THE PROPERTY OF THE PRO	4 interaction, into Bying country, boy field, assembly heard. On Bying course mitotic notamings, assembly heard. On Bying course mitotic notamings, experience, and Wise, Conduct. Could not playing military could be by granted authority. **TATE No. ADMINISTRA	Netheral Assessment 66 Stehdalm-Regulary Applies Co. 505 Odergonal Agreeth Works. 132 Parague Raginova, Eu. 129 Hunc Assessit Perdestr Co. 180 Phonor International Co. 60,00 Proposer Bargareet Co. 60,00
HEATH AMPLANE COMPANT, Inc. Arghes for severals additioned in C. § Arghes forpits Trying School Chinge	MANAGEM (1) PLY1 OFER data, the destruction of long on- Life (1) PLY1 OFER data, the destruction of long on- life (1) Publish, business declares, see the law data leaf in the liberty lives are as all the long coupled where it has many to take you to by people. Foreight and postmerster layers became, declared publish, Kamam Sile, Ma.	THE ATTEND AVAITOR & MOTO TELEMENTS ARE INTERES IN FIRE AT MARKET AND A SECOND TO THE ATTENDANCE AND A SECOND TO THE ATTENDA	Princip
MATRIC VACUUT SCHATTERSONED FERION THE DE- Casadad By II. Taring above the me at the olden dama- ement who have made a movem in all beauting at four below the real me and the state of the state of the state and the real me and the state of the state of the latest the state and the state of the state of the latest the state of the state of the state of the latest the state of the state of the state of the state of the state of the state of the state of the state of the latest the state of the st	ADDRAGES OFFI IN OU CHRYSTON SOURCE OF AVIATION LARRENCE, MARKETS, MARKETS	WARRINGTON HAME PAINT SETVICE HIll But Readings All this content on proceeding draw by Tables, Hadington, All thing induction in proceeding draw by Table Street, ever no weap, nor could not I sent polen state. The pears of Sping SCHOOLS, States vary measurable State	Dean Arthur, Tale
RLASON complete the thingue of appear Co. Jos. Son service of the complete the service of the se	NY FOLK COUTES ATTHE SERVICE SEC., CARRIES CITE, N. Y. Complex Fives Service, endeduce Instruction, Aural Plane graph, department and Federage instruct. Fost plan county to the complex of the complex county of the county of which types. All these of their markets from the graph of their county of the county transfer. For reducing to relies for Fifty Internation. First the delirencies.	YOUR card, in this directory, serves to keep your flying service continuously before the readers of AVIATION at trifling cost. When left Raine.	Searchard Avaine Do. 398 Typ. 6 Serich. 509 Titusen, Jun. 30 Valentier and Or. 57 Van Schneel, Brow Chemical Warks, Jan. 114 Vogil Lowy, The Chance. 112
ELLIFOND PARISONS ADjust & Barring Graine, the trainers was further adjusted to the first own Keep Engageste Chinesis now and read makes depend from the first 2000 E. 1200 ft. Industry, thousand applied. 2000 C. 1200 ft. Industry, thousand option. Therefore, the new near field, hearded on this case of the problem feed, 12 miles considered of Chinesis hay a first feet of the plant, Fin Studies Adjust, F. O. Address Road Trangest, M. Pales Studies Adjust, F. O. Address Road Trangest, M.	WHERE to FLY CONTINUED ON POLLOWING PAGE	AVIATION 250 West 57th Street, New York City	Where to Fly. 994, 208 What Bar, Sao A 994, 208 Wood Blantie Web Co, EW 95 Wood Blantie Web Co, EW 95 Yachy Street Co 109 Yachy Street Co 109

Who's Who in American Aeronautics

THE BLUE BOOK

AMERICAN AIRMEN

Contains One Thousand Biographies of

Avistors, aeronouts, aeronautical engineers, aircraft manufacturers, flying officers of Anny, Navy and Marine Corps, Air Mail personnel, asseraft accessories manufacturers, flying field owners. American aces, aeronautical instructors, inventors, National Guard air officers, aeronautical writers, sportsmen. men prominent in aeronautical affairs.

TWO HUNDRED ILLUSTRATIONS

Page Two Document

GARDNER PURCHURUS COMPANY

Eaclosed places fad Two Dellars for case of Who's Who in American Name

Addres Circ

CLASSIFIED ARDRESS REPLIES TO SON NUMBERS CARE AVIATION, 2N W 57TH RT. NEW YORK WANTED Budgers X3 scred conces with as without soon

January 16, 1957

FOR SALE: Outso Seepal, Lorning or York and Life sety maters. Certis Metropolitic Ampleos Co., Fact Wash-

Special dealogs, latest suppresents, steel hading year, OXFs sheep. Will trade or buy T.M. Bux 536 Arramon. THE BALTE Serve is excellent resolution. Thorough

fundage without to out two passengers to frost sent. Free as Photological with most everlanced OXS motor, 9755.00. has flown 200 boggs; other 500. Both lane been bound in \$1,200.00, respectively. Box 544, Assaulte-

ping courses and relarger \$150.00. OXX meter, oned, a her-gan, \$150.00. William K. Long. 255 Transfersy, Landa, New OXX metars \$395. Dard ones as low as \$95. Model

A Shore 5250 End Ort, York, Penns. FOR SALE: In new confition, Levrance A-3, 25 hp. moand council, for firstipliers. \$90.00 for the lot if taken room.

WANTED: \$3,000 to \$5,000 to help finness the countries figure of an experienced arrangement of the Corr committee that warmeds your consideration, if you are finished in-landed in conceptual arrangement. For 5th Avences. FOR SALE: Lincoln Stredays, 150 Bispane motor, complete, pendy to fig., perfect condition. Dill wheels, Hartach pens, yearly to Ey, partiest contention, tree wheels, Harrison opposition. Extra Histo markey complete. Extra net wings. served, perfect condition, wire, steals, tell vertices included.
Well deliver skip 500 miles for expenses. Other sparre. The
whole works for \$1,000. Manus Thring Service, 1312 West

Roseberry, Spakene, Wash.

FOR SALE: One new 130 kp Le Bloom mutor, with plants of course, et year own price. Make offer, M. W. Boss. and less. Mast past remorable merburied requestion. Wanted, 3 schoder Agents or Leventon noise, now or need,

ADVERTISING

Well trade 127 eryes of Arkenson band, stany White Eryes. Flyony seams for \$25.90 cmb, and belonce at \$5.00 per

VOUGHT VET with 180 lorus payer E Bless meter, good

The Aeroplane

Published Weekly 175. Providly, London, W.I.

CHARLES GREY Editor Subscription Rates for U.S.A.

1 year \$8.50



Standard \$1 from whom, \$1000 to \$1000 and. Open whom, \$1000 to \$1000 and. Standard over Standard \$1 declared \$1 de NICHOLAS-SEAZLEY ABELANE CO. RESTREET MAINTER DROPFILES CO

OFTEGET POSTS

PLANES

IN DAY ANTONION, TELLAR

COMMERCIAL ARPLAN

Massis, New York

Air See: 10215D

SEAMLESS STEEL TUBING

Complete Warehouse Stock for Immediate Shipment or may Expents

TRANSPORT PLANE

AMPLANCE, JSci., our and mod. JSCS, 655 and Elec-

CLI mobile, here not made and spaces

SOUTHERN MRWATS INC

Sald in New York. New Tenur and Personal parties for

HISSO TIMING DISKS

Lets of these, \$2.25 main, both of ma, \$2.00 and. Person provide

FORT WAYNE MARINE COMPANY

GEO. A. WIES, INC.

COLUMN AND THE PRINTING PARTY PARTY PARTY IN THE PARTY PARTY

SERVICE STEEL CO.

Harager Courter Code

We help the planting of help the ex-

AIRCRAFT SUPPLIES Example Children to our party of wide resident and hope reduced MONUMENTAL ABBURAPT, DIC.

- LIBERTY MOTORS -THE AND THE PARTY DESCRIPTION CAN STREET BOOK STORE ANY REST "LIMINGS" From Descrip-DOUNGON MOTOR PRODUCTS, &c. The Reed Propeller (Patents) Profess

Description of the later of the later of U. J. Linnar-Colin Limites & Mair Co., Inc. Carder Gig. Fraidy Speed Science-1939-blocker Print, S. 1, Friday Speed Parties, Children Parante, Policies Des Printes—1938-1956. Fraidenille Cop. Thirteen 2712; Sciences Cop. Lides, David. SEND

ONE DOLLAR ductions which emile you is sig in fee minute. Plot the MILLER, PALMER CO., Dabouro, Joya

SEAMLESS STEEL TUBING Made to Aircraft Specification 19225-D Warehouse stock also mill shipment.

PHENIX NITRATE CLEAR DOPE

at \$1 Mf per and on 60 per want forms. Drome come at \$100 and full reduced in 100 days, Small preparati. Phonix Aircraft Freducts Co... Williamster, N. Y. THE DETROIT AERO MOTORS CO. HILL DELECTED AVE. Quantity of 220 H. P. Hispano's. new and complete. Write for prices, state quantity.

14' PHONE OR \$ 120 H P ENGINES. and complete line spares for same. TIPS & SMITH INC. P.O. POX NO. 102 Prominent European manufacturer of almilione motors desires to make arrangements for manufac-

Curtiss Field, Garden City, N. Y. Min Po loar 10 NF Mary Elst Fitch and marries SUPPLIES

EXPERIMENTAL MOTOR WORK

We will consider the second of the second of

PINCHES & LICEUS, DC. AUTOMOTIVE DICHESS.

AIRPLANE COVERS

PRINTED MADE ORANGE A COURSE OFFICE

Scratters Arbeiter Co. 1111 Fathers Ave. Pt. Warne Ind.

New 26 a 4 tens 5 3.25 New Cortin X-5 Monte New Cortin C-6A Monte 2300.36 We have more often because in skylene, meters, seek park.

IRELAND AIRCRAFT, In-

Pandage 56 00 14 00 14 00

ture or sales in the United States BOX 537, AVIATION EXPENSE DESIGNED ASSCRAFT CO. INC. Ween Nine Distributors FOR SALE: Belows Sout (less mater) \$150: Innie \$100 Court (eye) \$1,000, and West MADVIAND

AMPLIAND FILTE BATT MOTION SUPPLIES AT parts for SPGC Scarce, founded, GLC, GUEZ and HOUR Explain himset, falkers, Carrell, Lawrence and First parts (CA) pains near list are control bill printed by the falker and the Franchity for Aprech Sens for Arbeites middle PLOTE J LOCAN AIRPLANE CO. AIRCRAFT SERVICE DIRECTORY
CONTINUED

DECATUR AIRCRAFT COMPANY
DECATUR, ILLINOIS
Not and Until Stops for Sele
Parts for 2000-25% or planned 21 Ships

DANIEL ROCHFORD

Avasies Editor, Status Drivan Transcopt

AVIATION ADVERTISING AND PUBLICITY

PARAGON PROPELLERS

SETTER THAN EVER

PARAGON Engineers, Inc.

Baltimers Maryland

Dutiel Goggenhain School of Aeromatics
Counce in Aeromatical Engineering and Industrial Avairan. Fee particulars apply to the
Dean of the College of Engineering.
N. T. Industrial: Biomatic Butter Butter Rev. Vol. N. V.

CONTROL CASE ### ANTHANE COVERN

**CONTROL CASE ### ANTHANE CASE ##

AERIAL MACHINE & TOOL COMPANY
TO Good Store Sold Coy
Parts saide from blue print, shorth or sample. Your
requires well recorn our present attention.
Contractors for propertyment

Specific in addition stated from place in a company of the company

"L'AÉRONAUTIQUE"
The insting French paper

erationeo morrear Gauther-Villara et Cie, 55, quai des Grasda-Augustina (6') Paris

Henri Bouché

SUBSCRIPTION HATES FOR U.S.A. 1 year—100 france

THE BEST THAT MONEY CAN BUY IN A COMMERCIAL TRAINING SHIP \$2,250. \$2,250.

"Quality and Strength at Low Cost"
HESS AIRCRAFT CO.
Salm Office
WYANDOTTE. MICHIGAN

NITRATE DOPE

NEW IMMEDIATE PRODUCTION SHIPMENT

Contractors to U.S. Army and Namy

VAN SCHAACK BROS. CHEMICAL WORKS

THE AVERAGE AVE.

CHEMICAL WORKS. BLOS. CHEMICAL WORKS. BLOS. B

KENTUCKY CARDINAL OX5 3PLACE \mathcal{A} Bird of a Different Color **L'UNDAMENTALLY** different in design, distinctively different in its anpointments, and amazingly different in performance. Send your name for full details KENTUCKY AIRCRAFT Owensboru, Ku-

Announcing —



VOUGHT "CORSAIR"



A two-place observation land and scaplane, possessing the characteristics and performance of standard single seater pursuit planes.

Designed and Constructed with the Bureau of Aeronautics for the United States Navy.

CHANCE VOUGHT CORPORATION

LONG ISLAND CITY, NEW YORK